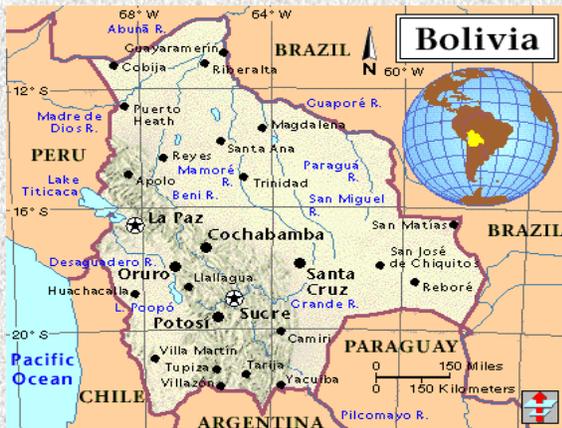


Bolivia Electrification Program

Granville (Pete) Smith (NRECA/South America)



Unelectrified Population= 3.5 million ++

Renewable Energy Program Bolivia Electrification

- Solar PV electrification in altiplano and Santa Cruz
- Biomass generation program in lowlands
- Local government support for renewables
- Partnership with CRE
- GIS planning used to identify targets
- Local assembly of equipment
- Training.



Riberalta biomass 1-MW power plant

Riberalta Biomass Power

- Cooperativa Eléctrica de Riberalta/NRECA
- Brazil nut biomass generation plant
- Installed in 1996
- Amazonian region of Bolivia
- Funding from USAID, Cooperative, E&Co
- 1-MW plant, US\$2.2M with grid.



Typical solar home system installed in the altiplano

Altiplano and CRE Solar Electrification Program

- Cooperative in Santa Cruz and Municipalities in Oruro and La Paz
- Solar PV electrification programs
- Initiated in 1994, on-going
- Various communities in the altiplano and San Julian, Santa Cruz
- Financed by local government funds
- Over 2500 systems installed and growing.

Bolivia Wind Water Pumping Program

- Altiplano and Cochabamba valleys
- Water supply program using wind and solar electric pumping systems
- Initiated by NRECA in 1993, ongoing
- Llasaraya, Oruro, and Cochabamba
- Funds provided by USAID coordinated with CARE
- 25 systems installed to date.



Wind water pumping station installed in Llasaraya, La Paz